

CENTRAL INTELLIGENCE AGENCY

REPORT NO.

25X1A

# INFORMATION REPORT

CD NO.

COUNTRY Germany (Soviet Zone)

DATE DISTR. 6 March 1951

**SUBJECT** Radar Set at Finow Airfield

NO. OF PAGES 2

**PLACE  
ACQUIRED**

NO. OF ENCLS. 5 sketches on  
(LISTED BELOW) ditto

SUPPLEMENT TO  
REPORT NO.

DATE OF INFO.

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#### SOURCE

1. Photographs were taken of the radar set at Finow Airfield at 4:00 p.m. on 20 September 1950 in partly cloudy weather. \* The lead-in wires running down the mast led to a tent carefully camouflaged with branches. No power unit was observed.
2. Various rotations of the set were observed between 19 and 21 September 1950. Once the set rotated about 30 times around its vertical axis at a rate of one complete rotation every seven seconds. Otherwise only movements back and forth were seen, at greater intervals. During the intervals between the taking of photographs the set rotated. No service personnel were seen at the set when it was rotating. Once when a jet fighter was flying past at a distance of about 6 km, the set slowly followed the passing plane. The rotating motion was once interrupted by a movement in pendulum fashion during which the set moved to and fro about 40° before again slowly following the plane. \*\*\*

\* [REDACTED] For exact location of set, see Annex 1. For photographs of sets, see Annex 7a, b, c, d, e, and f. For positions from which photographs were taken, see Annex 2.

\*\*\*

\*\*\* [REDACTED] With a view to calculating the dimensions of the set, the photographs were evaluated with due consideration to distance, focal distance, and angle of sight. See Annex 3. The calculations were based on known measurements, such as the dimensions of the bricks of the smokestack (25x12x6.5 cm). It was calculated from the photograph attached as Annex 7a that the important dimension, the distance between the dipole carriers (see Technical Intelligence Guidance Manual, Electronics) is 410 cm. From the photograph attached as Annex 7d, the distance was calculated to be 400 cm. For further comparison, the photographs taken of other radar sets were checked in a similar way, and from these photographs the distance between the dipole carriers was also calculated to be approximately 4 meters. The measurements derived from photographs a to f are entered on Annexes 4 to 6. In order to facilitate a control of the calculations the center of the picture is marked by a circle on the attached photographs.

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## CLASSIFICATION

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Description of the set: Antenna system I consists of two identical nine-element Yagi antennas arranged one above the other. The current is fed to a folded dipole behind which there is a reflector and in front of which there are seven directors. The distance between the two frames is  $1\lambda$ , or a wave length of four meters. Antenna system II consists of two identical dipoles set side by side which are fed through a line by means of  $\Delta$  (delta) match (sic). One director each is fitted in front of these dipoles, and behind them is a rectangular reflector. The wave length is the same as in system I. The horizontal distance between the two dipoles is about  $2\frac{1}{2}\lambda$ . All the four lead-in wires run to the upper rotatable portion of a container in which the entire antenna system is mounted rotatable. Through the plugs set in the wall of this container the lead-in wires of the set run to the tent at the side of the set. The two cylinders fitted at right angles to each other and mounted below the container appear to receive the drive for the rotation of the set since it seems improbable that this rotation can be effected by an axle fitted in the center of the mast.

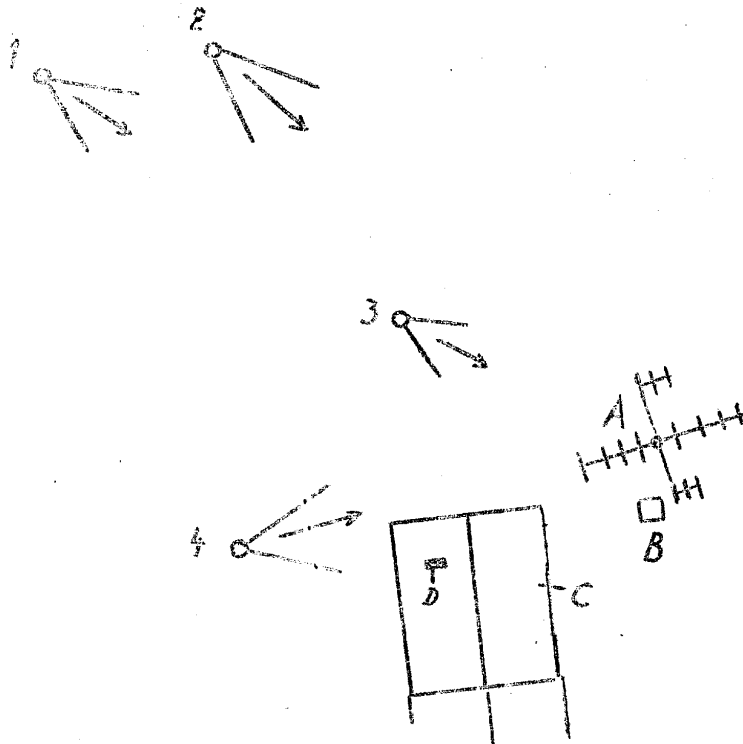
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Sketch Indicating the Positions from  
Which the Attached Photographs Were Taken



Legend:

- A. Radar set
- B. Tent
- C. Temporary building
- D. Smokestack
- 1. Position from which photograph a was taken
- 2. Position from which photograph b was taken
- 3. Position from which photographs c, e, f were taken
- 4. Position from which photograph d was taken

Estimated distances: From 1 to A - 45 meters  
 From 2 to A - 35 meters  
 From 3 to A - 15 meters  
 From 4 to A - 20 meters  
 From D to A - 12 meters  
 Width of gable wall of C - 8 meters

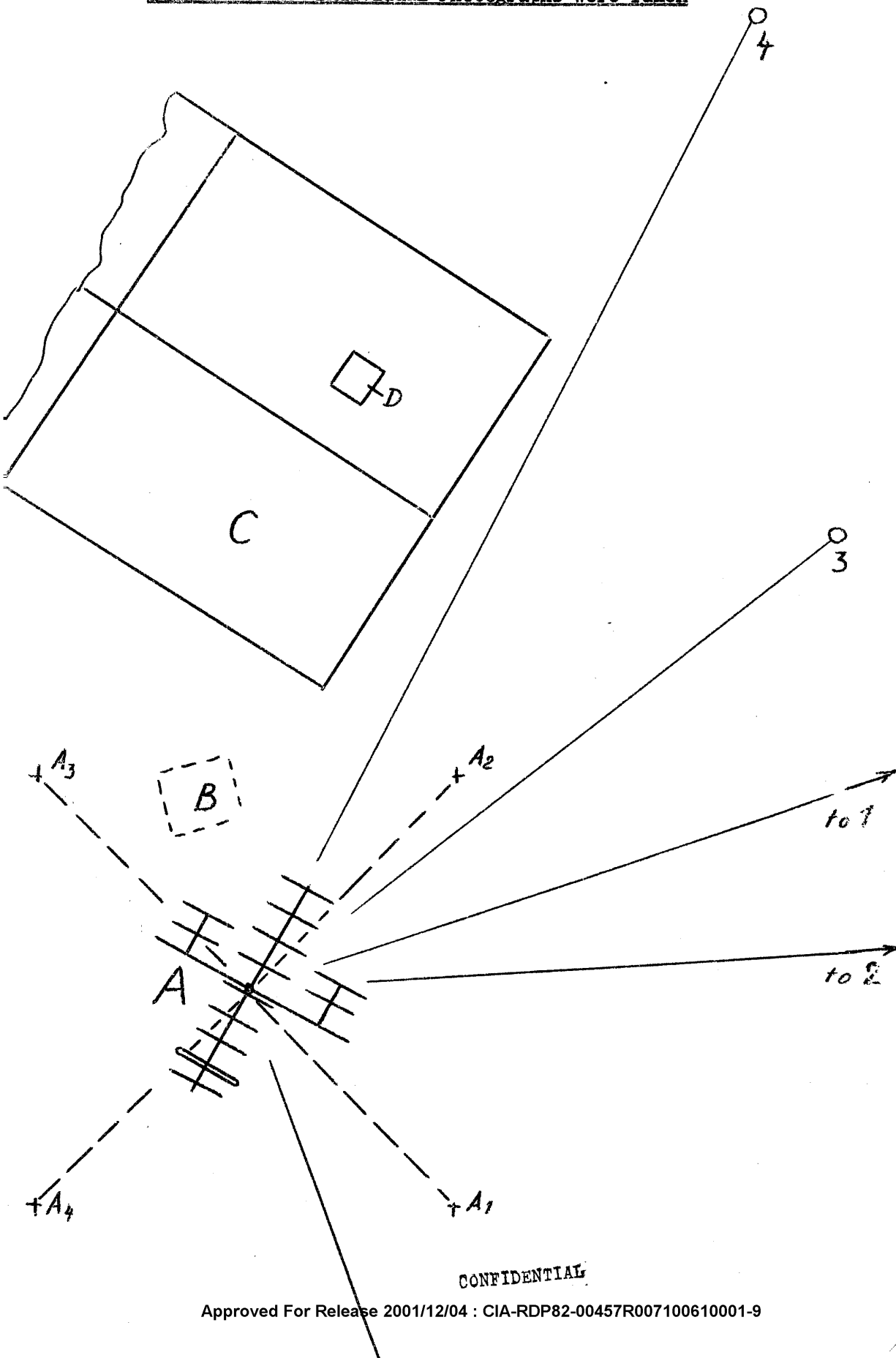
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Ground Plan Drawn in Accordance with the Positions  
from which the Individual Photographs Were Taken



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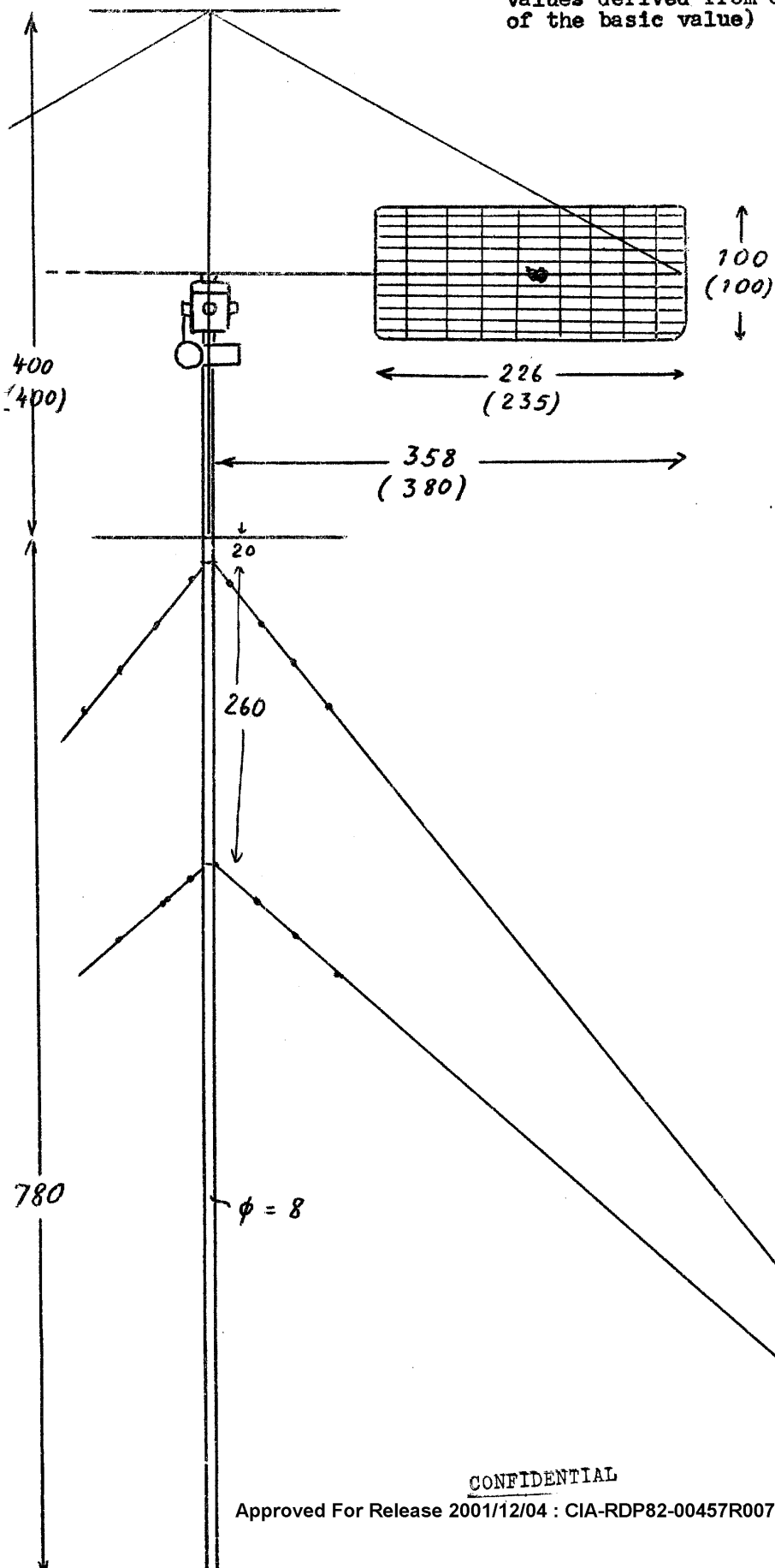
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Dimensions of Set as Calculated on the Basis of Photographs Taken

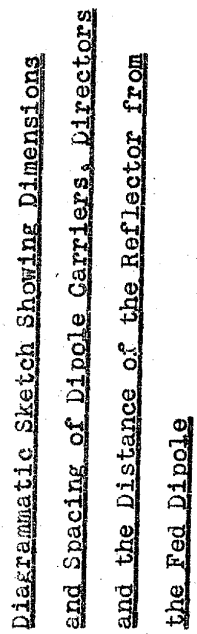
(Figures in brackets indicate alternate values derived from different calculations of the basic value)



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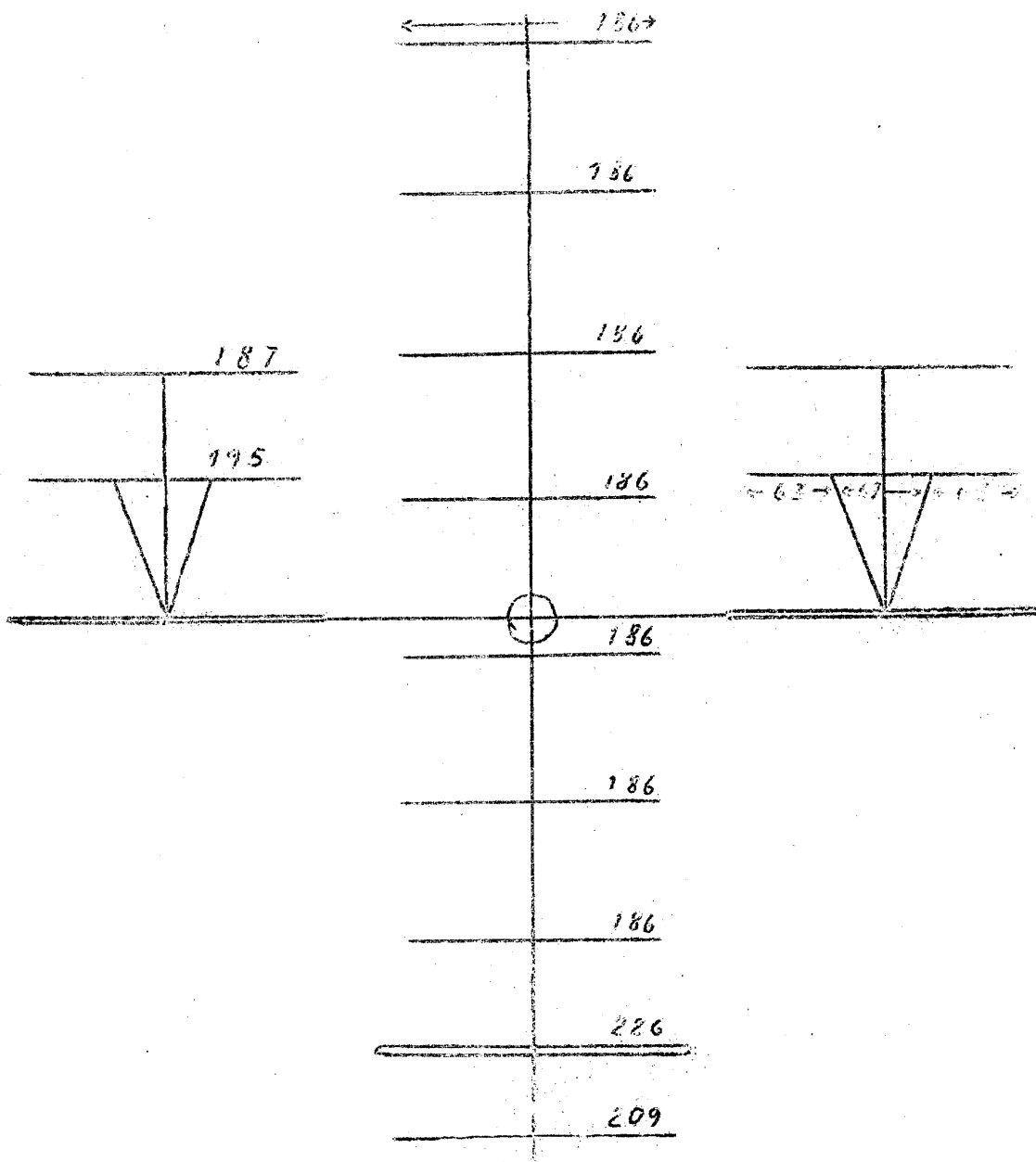


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Sketch Showing Length of Dipoles and Distances of Connections at the

Red Dipole



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*9964*

*G-1180*

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COUNTRY	East Germany	REPORT NO.	[REDACTED] 25X1A
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[REDACTED]

SOURCE:

[REDACTED]

Attached for your retention are negatives and photographs taken of the radar set at Finow Airfield. The report to which these photographs were originally attached was disseminated

Enclosures: 7 photographs  
7 negatives

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GERMANY BRANDENBURG PINO 52 50 N 13 42 E  
Pinow Airfield radar installation. Sept. 1950.

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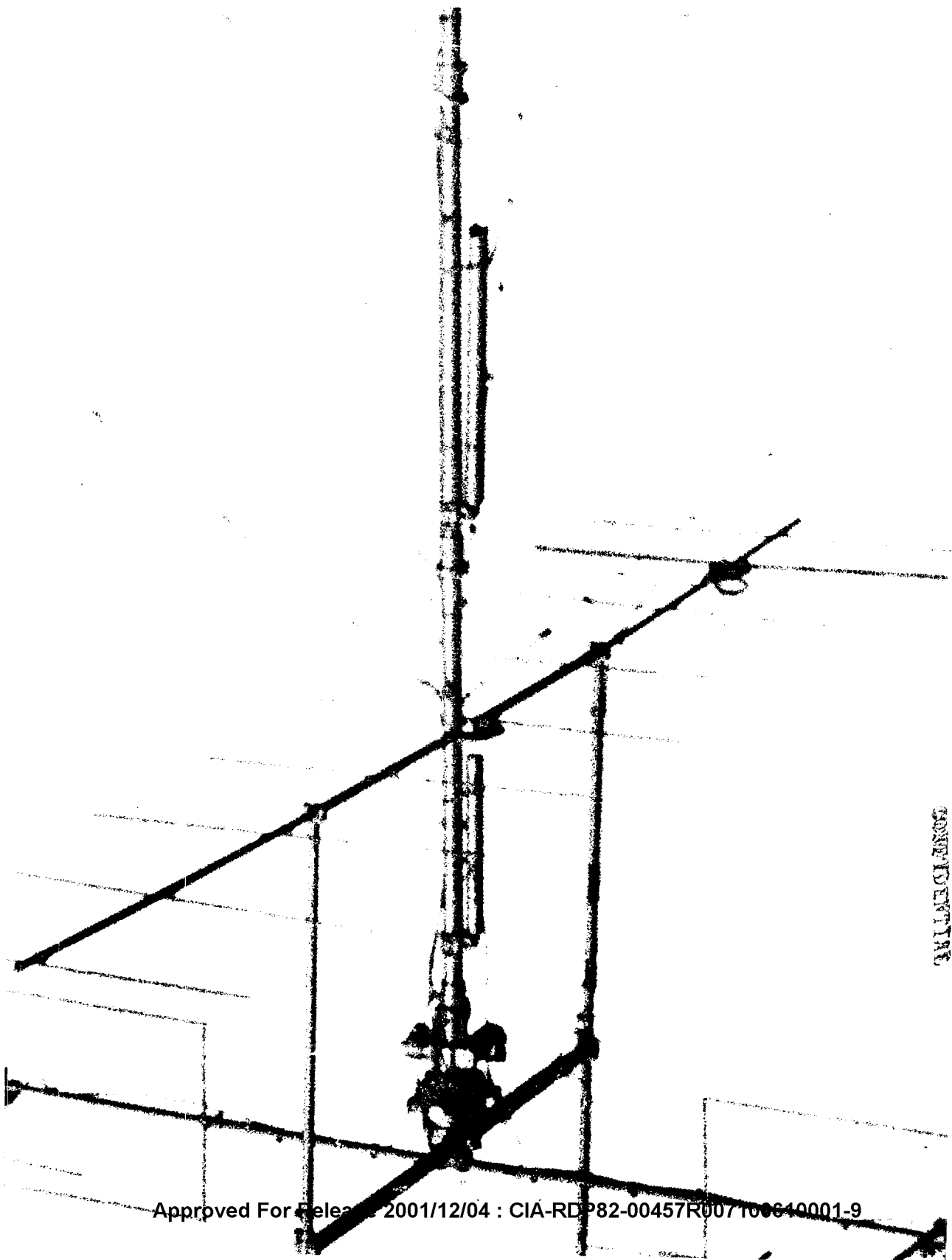
GERMANY BRANDENBURG FINOV 52 50 N 13 42 E  
Finov Airfield radar installation. Sept. 1950.

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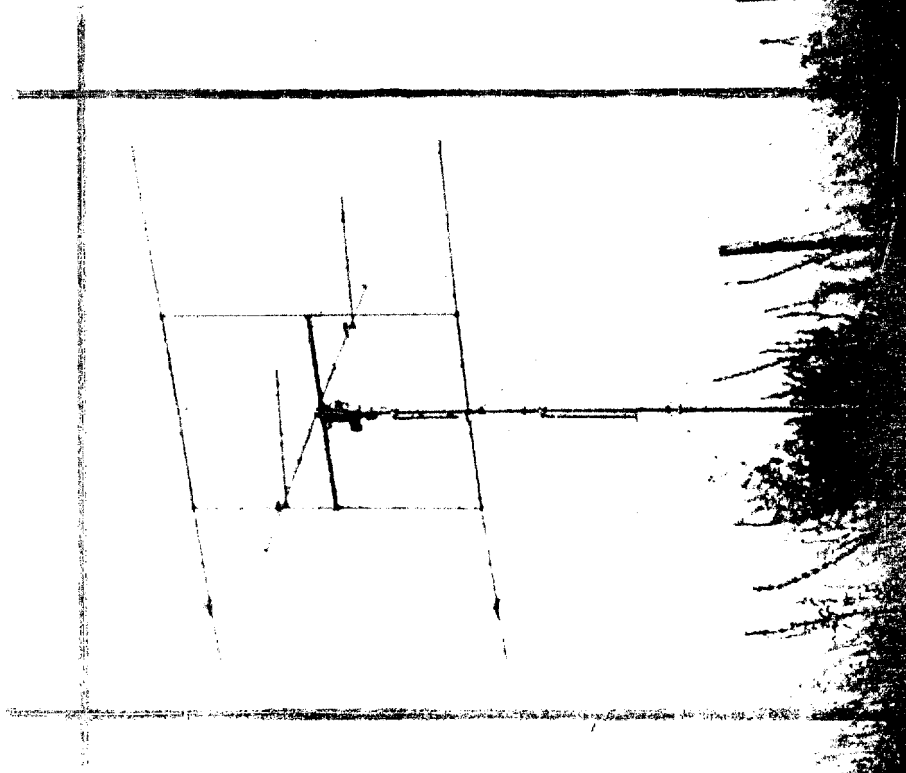
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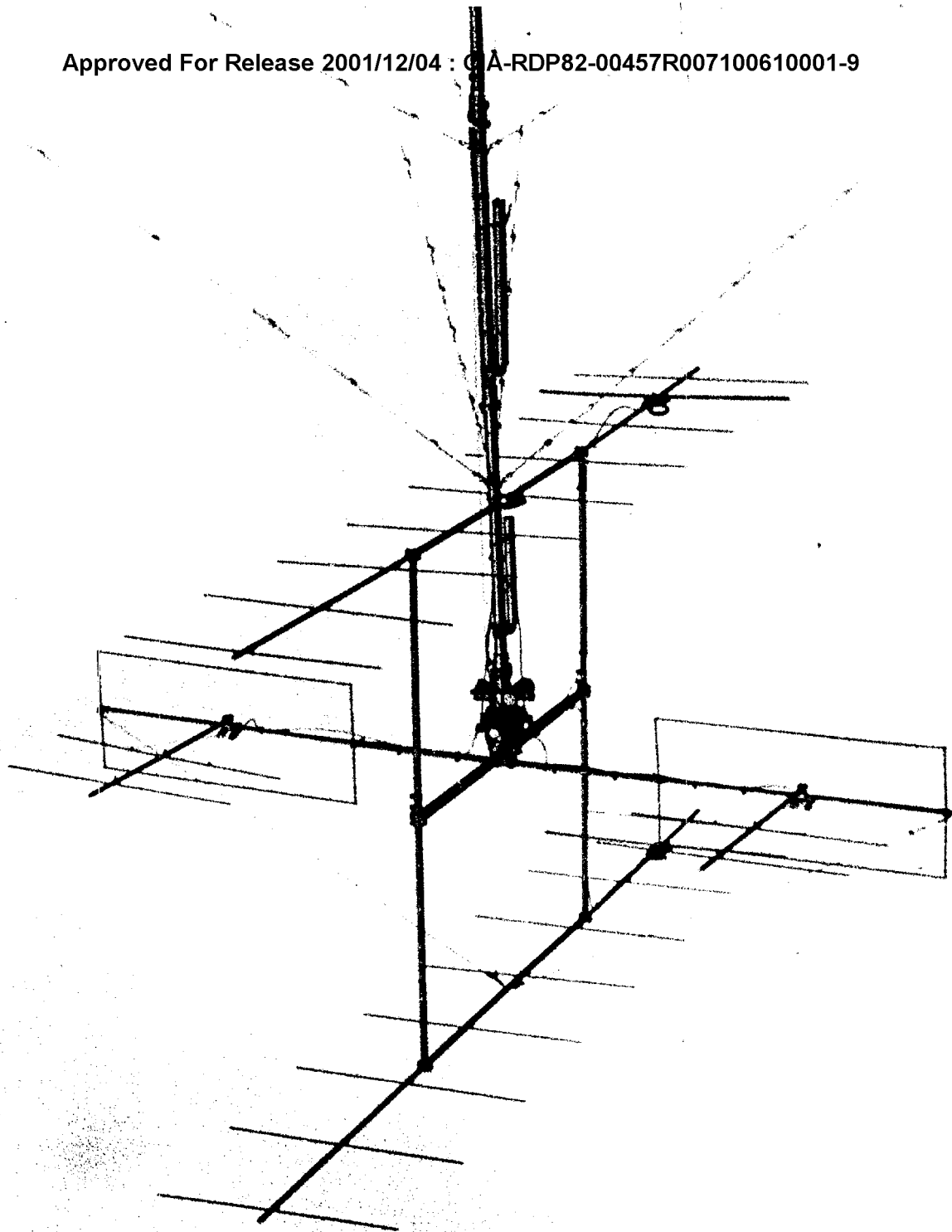
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